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SECURITY INFORMATION

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 11 June 1953

SUBJECT Disposition of Four Schlieren Devices; Planned
BTB Experiments with Fifth

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1. Four of the five Schlieren devices which the Berliner Technisches Bureau of SGO Transmasch received from VLD Carl Zeiss, Jena, are to be shipped from LTB to an unknown destination. Orders to crate the four were given in mid-March 1953. LTB personnel believe that the devices are to go to Russia.
2. Only one Schlieren device is to remain permanently at LTB. Karl Ing. Emil Klein and test engineer (Inu) Litter of the experimental department (Versuchsabteilung) of LTB are in charge of this device; they also guide the research work carried out with it. In March 1953, a test installation including the remaining Schlieren device was completed. A single-cylinder Diesel test motor provided with a whirl chamber (Wirbelkammer) will be investigated by means of the Schlieren device. The whirl chamber is provided with two homasil-quartz windows allowing the study of flow and combustion processes inside the cylinder.
3. Tests to be undertaken soon will cover the following:
 - a. Cold motor: Injection of Diesel fuel without ignition, study of flow processes;
 - b. Warm motor: Injection of Diesel fuel without ignition, study of flow processes;
 - c. Warm motor: Injection of Diesel fuel with ignition, study of combustion processes.
4. The processes under investigation will be recorded with slow motion West German ALC cameras (ALC Zeitdehner), with a speed of 80,000 pictures per second.

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